

# ORION LiFePO<sub>4</sub> 12.8V 3200mAh Battery

## Lithium Iron Phosphate



The ORION LiFePO<sub>4</sub> 12.8V 3200mAh battery is a popular lithium iron phosphate battery. It is intended for use in high capacity, high voltage battery. It can power a wide range of devices including an electric buffer, toys, smart doorbell etc.

Do not purchase batteries before reading and understanding these safety cautions. Using a lithium iron phosphate battery incorrectly may cause it to leak, generate heat, smoke, catch on a fire or explode.



### SAFETY

- +The cell must stay in the operating temperatures outlined in its datasheet.
- +The cell must not exceed voltage, current, and other ratings in its datasheet.
- +Store batteries separately, and do not transport without proper packaging.
- +Never store or transport together with conductive or metallic objects particularly in a pocket or bag
- +Do not keep in the sun, in a hot car, or anywhere with direct heat.
- +Recycle discontinued batteries according to local regulations and cover terminals with insulating tape before disposal.
- +Discharge end or cut-off voltage in data sheet is lower-limit for discharge cycle and should not be exceeded.
- +Charger or device should implement warning for over-voltage, over current, and over-temperature, control of overcharge.
- +Be careful not to short-circuit.

### TECHNICAL DATA

Battery Dimensions	35x140x80mm
Battery Weight	600g
Cell Type	Lithium Iron Phosphate
Cell Capacity (nominal/minimum) (0.5C Rate)	3200mAh
Voltage (nominal)	12.8V
Energy Density	40.960kWh
Recommended Standard Charge Method	1.6A, 14.6V CC-CV
Maximum Charge Method	3.2A, 14.6V CC-CV
Maximum Continuous Discharge	8A
Discharge Cut-off Voltage	8V
Cycle Life (80% DOD)	3000 cycles
Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 45°C